

Touchstone® WTM552A and G

Wireless Telephony Modem

Features

- DOCSIS® 2.0 and PacketCable™ 1.1/1.5 compliant design
- High performance WiFi-Alliance certified 802.11b/g wireless access point
- High Speed Internet via 4 ports 10/100 Base-T Ethernet (RJ-45)
- · Up to two lines of carrier-grade VoIP
- Firmware compatibility with legacy and future Touchstone products
- Multiple Protocol Support: PacketCable (NCS) and Session Initiation Protocol (SIP)



Building upon the success of over 20+ million voice lines deployed, ARRIS is pleased to introduce the Touchstone WTM552 family of wireless gateway products. The WTM552 combines two analog voice lines, a 4-port router, and wireless access point into a single device capable of supporting both home and small business applications. Using multi processor technology, the WTM552 can achieve full bandwidth performance without affecting ARRIS's legendary standard of voice quality.

Gateway Feature Set

- Stateful Packet Inspection (SPI) Firewall with denial of service prevention, port forwarding, URL blocking, and DMZ support
- · Network Address Translation (NAT)
- VPN pass-through support (IPSec, L2TP, and PPTP)
- User Friendly Web Interface with settings to allow remote Web page access
- WAN settings to operate as a DHCP client or to support static IP assignment
- WPA™ and WPA2™ Personal, 64/128 bit WEP, and MAC authentication Wireless Security Options
- Includes support for WMM® QOS, WMM Power Save, and Wireless Mesh Telephony
- Independent reset for wireless module does not effect telephony

Leadership in Battery Technology

- Multiple Battery Options Available 2-cell and 4-cell Li-lon solutions for up to 4 and 8 hours of standby battery hold time
- Firmware configurable battery management and reporting allows customization of operation parameters
- Battery Life Li-lon solutions give 6 to 10 years life expectancy almost double older technologies

ARRIS Touchstone DOCSIS 3.0 Telephony Modem WTM552 A & G

Specifications

Physical

Operating Temperature °F (°C) Storage 41 to 104 (5 to 40)

Operating Relative Humidity (Min-Max) 5-85%(Non condensing)

Temperature °F (°C) -40 to 158 (-40 to 70)

Color Dark Grav

Dimensions (HxWxD) in. (cm) 8.6 x 2.1 x 7.1 (21.9 x 5.3 x 18.0) - excluding F-connector

Weight lbs (kg) 1.2 (0.54) without battery

Battery: 4 Hour Back-up Option (-4)

Backup Capacity Lithium-ion 2.2 Ah

Battery Dimensions in. 1.2 x 1.85 x 3.1(cm) (3.0 x 4.7 x 7.9)

Weight | lbs 1.5 (kg) (0.66)

Battery: 8 Hour Back-up Option (-8)

Backup Capacity Lithium-ion 4.4 Ah

Battery Dimensions in. 1.2 x 1.85 x 5.7(cm) (3.0 x 4.7 x 14.5)

Weight lbs 1.7 (kg) (0.77)

Battery Storage Temperature

Note: Storage above 77 °F (25 °C) will significantly reduce life of the battery and not recommended.

Telemetry AC, Fail, Battery Low, Battery Missing, Replace Battery

Diagnostic LEDs Power, DS, US, Online, Link, Ethernet 1, Ethernet 3, Ethernet 4,

WLAN, DMZ, Telephone 1, Telephone 2, Battery (G and H Models)

Interfaces

RF Interface External 'F' type connector

Data Interfaces 10/100 Base-T Ethernet (4, RJ-45 connector)

Telephony Interface 2 lines; RJ-14 ("Line 1/2"), RJ-11 ("Line 2")

RF Antenna Interface External SMTA connector to single detachable dipole antenna

Input Voltage (nominal) 100/240 VAC 50/60 Hz

Telephony

Supervisory Voltage 48 V dc nominal

Maximum Loop Length to CPE 1500 ft (457M) of 26 AWG (0.4 mm) wire

Ringing Load Capacity 10 REN total; 5 per line

Provisionable High Loop Current Mode Yes

Telcordia™ GR 1089 (Lightning and Power Surge) Tested

Programmable Interface for Worldwide Applications

Yes

(Supports multiple country templates)

RF Downstream

Frequency Range (MHz) 88-860

Modulation (QAM) 64 or 256

Data Rate (Mbps)

RF Input Sensitivity Level (dBmV)

-15 to +15

Carrier Bandwidth 6 MHz

The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice. ARRIS, the ARRIS logo, Auspice®, C3™, C4®, Cadant®, C-COR®, CHP Max®, Cornerstone®, CXM™, D5™, Digicon®, Flex Max®, Keystone™, MONARCH®, n5™, nABLE™, NSM™, nVision®, OpsLogic®, OpsLogic Service Visibility Portal™, TeleWire Supply®, TLX®, Touchstone®, VoiceAssure™, Service Visibility Portal™, TeleWire Supply®, TLX®, Touchstone®, VoiceAssure™, VSM™, and WorkAssure™ are all trademarks of ARRIS Group, Inc. Chet trademarks and trade names may be used in this document to refer to either the entities claiming the marks and the names of their products. ARRIS disclaims proprietary interest in the marks and names of others. © Copyright 2009 ARRIS Group, Inc. All rights reserved. Reproduction in any manner whatsoever without the express written permission of ARRIS Group, Inc. is strictly forbidden.



°F (°C) -4 to 140 (-20 to 60)

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RF Upstream

Frequency Range 5-42 MHz

Modulation QPSK, 8 QAM, 16 QAM, 32 QAM, 64 QAM & 128 QAM (S-CDMA only)

Data Rate (Mbps) (Max.) up to 30.72

RF Output Level (dBmV) A-TDMA

+8 to 54 dBmV (32 QAM, 64 QAM)

+8 to 55dBmV (8 QAM, 16 QAM)

+8 to 58 dBmV (QPSK)

S-CDMA

+8 to +53 dBmV (all modulations)

Automatic Level Adjust

Gain Control Range (dB)

50

Frequency Stability (kHz) ±5
Output Impedance (Ohms) 75

Standards

Codec: G.711, 64 kbps, μ and A-law encoded speech Enhanced codec support planned (G.726, G.728, G.729E, iLBC, BV16) T.38 Fax Relay DOCSIS 2.0 PacketCable 1.0 and PacketCable 1.5 RFC3261 SIP: Session Initiation Protocol UL® 60950-1, FCC Part 68 (1998) Subpart F for Telephony Ports RJ14 and RJ11, CE IEEE Std. 802.11b, 1999 Edition IEEE Std. 802.11g, 2002 Edition



ARRIS Touchstone DOCSIS 3.0 Telephony Modem WTM552A & G

Ordering Information

CSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA – no battery backup capability Integrated 100-240 VAC, 50/60 lower cord with NEMA 1-15 pass-through power plug Includes Quick Install Guide, Ethernet Cable, USB Cable, and USB drivers CSIS 2.0 / PacketCable 1.0/1.5 Compliant E- MTA – no battery backup capability Integrated 100-240 VAC, 50/60 wer cord with CEE 7/16 Euro power plug Includes Quick Install Guide, Ethernet Cable, USB Cable, and CD-ROM rs -DOCSIS 2.0 / Euro-PacketCable 1.0/1.5 Compliant E- MTA – no battery backup capability Integrated 220/240 12 foot power cord with CEE 7/16 Euro power plug Includes Quick Install Guide, Ethernet Cable, USB Cable, and USB Drivers DCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA Integrated 100-240 VAC, 50/60 HZ Power supply with 12 foot power plug Includes Quick Install Guide, Ethernet Cable, USB Cable, and CD-ROM with users guide and USB DCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA Includes 1, 2-cell, Li-lon Battery Pack for up to 4 hours of 1-240 VAC, 50/60 HZ Power supply with 12 foot power cord with CEE 7/16 Euro power plug Includes Quick Install
wer cord with CEE 7/16 Euro power plug Includes Quick Install Guide, Ethernet Cable, USB Cable, and CD-ROM rs -DOCSIS 2.0 / Euro-PacketCable 1.0/1.5 Compliant E- MTA – no battery backup capability Integrated 220/240 12 foot power cord with CEE 7/16 Euro power plug Includes Quick Install Guide, Ethernet Cable, USB Cable, and USB Drivers OCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA Integrated 100-240 VAC, 50/60 HZ Power supply with 12 foot power plug Includes Quick Install Guide, Ethernet Cable, USB Cable, and CD-ROM with users guide and USB OCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA Includes 1, 2-cell, Li-Ion Battery Pack for up to 4 hours of
12 foot power cord with CEE 7/16 Euro power plug Includes Quick Install Guide, Ethernet Cable, USB Cable, and JSB Drivers DCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA Integrated 100-240 VAC, 50/60 HZ Power supply with 12 foot power plug Includes Quick Install Guide, Ethernet Cable, USB Cable, and CD-ROM with users guide and USB
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ole, and CD-ROM with users guide and USB drivers
OCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA Includes 1, 4-cell, Li-lon Battery Pack for up to 8 hours of I-240 VAC, 50/60 HZ Power supply with 12 foot power cord with CEE 7/16 Euro power plug Includes Quick Install Ile, and CD-ROM with users guide and USB drivers
OCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA Integrated 100-240 VAC, 50/60 HZ Power supply with 12 foot ss-through power plug Includes Quick Install Guide, Ethernet Cable, USB Cable, and CD-ROM with users guide uded
OCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA Includes 1, 2-cell, Li-lon Battery Pack for up to 4 hours of 1-240 VAC, 50/60 HZ Power supply with 12 foot power cord with NEMA 1-15 pass-through power plug Includes 1-15 lble, USB Cable, and CD-ROM with users guide and USB drivers
OCSIS 2.0 / PacketCable 1.0/1.5 Compliant E-MTA Includes 1, 4-cell, Li-Ion Battery Pack for up to 8 hours of 1-240 VAC, 50/60 HZ Power supply with 12 foot power cord with NEMA 1-15 pass-through power plug Includes able, USB Cable, and CD-ROM with users guide and USB drivers
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ro-DOCSIS 2.0 / Euro-PacketCable 1.0/1.5 Compliant E-MTA Includes 1, 4-cell, Li-Ion Battery Pack for up to 8 rated 100-240 VAC, 50/60 HZ Power supply with 12 foot power cord CEE 7/16 Euro power plug Includes Quick SB Cable, and CD-ROM with users guide and USB drivers

Accessories

718003	2-Cell, 2.2 Ah, Li-Ion Battery Pack for WTM552G
718004	Kit of 60, 2-Cell, 2.2 Ah, Li-Ion Battery Packs for WTM552G
718005	One, 4-Cell, 4.4 Ah, Li-lon Battery Pack for WTM552G
718006	Kit of 30, 4-Cell, 4.4 Ah, Li-Ion Battery Packs for WTM552G
TBD	Side Spare Foot Kit (100 per) for WTM552
718007	Battery Door Kit (50 per) for WTM552
717988	North American NEMA 1-15 plug Power Cord for WTM552G, 12 foot with pass-through
TBD	European CEE 7/16 Power Cord for WTM552G, 12 foot

